

Emergency Power Supply Engineer

Reports to Line Manager:	Steady State Electrical Power Network Section Leader, Electrical Engineering Division, Central Engineering and Plant Support Department	Job Code:	CEP-118
Direct Employment:	Not Required	Grade:	Р3

Purpose

To supervise the Steady State Electrical Power Network (SSEPN) Section's engineering design activities, construction, installation and operation in all matters related to the emergency power supply components and systems dedicated to the supply of investment protection and safety relevant electrical consumers.

china Major Duties/Responsibilities

- Is responsible for the design, procurement, installation and testing of emergency power supply components and systems dedicated to the supply of investment protection and safety relevant electrical consumers;
- Manages the procurement, routing and installation of cables for investment protection and safety relevant components;
- Follows-up with the licensing process and preparing of safety reports for the safety relevant emergency power supply components;
 - Is responsible for the operating description of the complete safety relevant and investment protection electrical distribution at ITER;
 - Is responsible for preparation and future updates of the sections of the Electrical Design Handbook that are dedicated to safety relevant electrical components and system;
 - Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Qualifications and Experience

• Education:

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- Degree at least equivalent to 5 years of study after the High School Diploma, in Electrical Engineering or other relevant discipline.
- Technical experience:
 - At least 5 years' post graduate experience in design, construction, installation and testing of electrical components and systems comparable to those of the ITER Emergency Power Supplies, or projects of similar complexity (i.e. AC rated voltage in the range from low to medium voltage including emergency diesel generator units, of about 3 MVA, qualified for safety relevant systems);



- Good knowledge of the design details, technical requirements and nuclear safety functions of electrical distribution systems comparable to those used for the ITER SSEPN;
- Good knowledge of international electrical standards and general design criteria for safety relevant components;
- Good knowledge of Quality Assurance/Quality Control procedures for the design, installation, commissioning and operation of Safety Relevant electrical components, would be considered an advantage;
- Good knowledge of safety automation architectures and facilities usually used in nuclear plants, would be considered an advantage;
- Good knowledge of French electrical standards for electrical installations in "Basic Nuclear Installation" would be considered an advantage.

• Project experience:

- Basic Project Management experience is required.
- Social skills:
 - Collaborative and positive personality;
 - Ability to work effectively in a multi-cultural environment;
 - Ability to work in a team and to promote team work.
- Language requirements:
 - Fluent in English (written and spoken);
 - Knowledge of written Technical French would be considered an advantage.
- Computer and IT skills:
 - Good knowledge of ETAP software application (www.etap.com) or equivalent tools for design of power distribution system would be considered an advantage.

Direct Supervisor and Interfaces

- Reports to the SSEPN Section Leader;
- Interfaces with all members of the Electrical Division and others systems to support the integration of the emergency power supplies.

Authority / Approval Levels

This position has authority and approval levels as defined by generally defined by the SSEPN Section Leader for his/her scope of work.

Measures of Effectiveness

- Successfully supports the Electrical Division's design, procurement and construction activities;
- Successfully controls the activities related to Electrical Design Handbook;
- Successfully manages the interfaces associated with the Emergency Power Supply Components.